

10-12-06

IPW 163/\$

DOCKET NO.: ISIS-2112

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Nielsen, et al.

Application No.: 08/817,067

Filing Date: April 4, 1997

For: Peptide Nucleic Acid Conjugates

Confirmation No.: 7706

Group Art Unit: 1631

Examiner: Michael L. Borin

EXPRESS MAIL LABEL NO: EV 816198170US

DATE OF DEPOSIT: October 10, 2006

EV816198170US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**AMENDMENT, REQUEST AND PROCESSING FEE TO DELETE AND/OR
ADD TO ORIGINAL ERRONEOUSLY NAMED OR NOT NAMED INVENTOR(S)
IN DECLARATION - NONPROVISIONAL APPLICATION
PURSUANT TO 37 CFR § 1.48(a)**

This amendment and request is to correct the incorrect original naming of inventor(s) in the declaration under 37 CFR § 1.48(a) as set forth and filed on April 4, 1997.

Addition and/or Deletion of Inventor(s)



Add the following previously unnamed person(s) as inventor(s) of this application:

Rolf Henrik Berg



Delete the following previously incorrectly named inventor(s)

10/16/2006 WASFAW1 00000104 233050 08817067

01 FC:1464 130.00 DA

Attachments

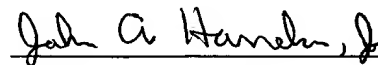
Attached is

- ☒ A statement from
(check items that apply)
- ☒ each person being added as an inventor that the error in inventorship occurred without deceptive intention on his or her part. 37 CFR § 1.48(a)(1).
- ☐ each person being deleted as an inventor that the error in inventorship occurred without deceptive intention on his or her part. 37 CFR § 1.48(a)(1).
- ☒ a declaration by each of the actual inventor(s) as required by 37 CFR § 1.63 (or as permitted by §§ 1.42, 1.43, or 1.47. 37 CFR § 1.48(a)(2)).
- ☐ written assent of the assignee (if any of the original inventors executed an assignment). 37 CFR § 1.48(a)(4).

Processing Fee Payment (37 CFR § 1.17(i))

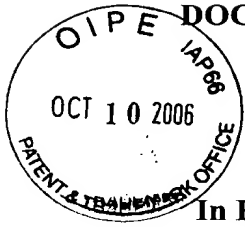
- ☐ A check in the amount of \$130.00 is attached.
- ☒ Please charge Deposit Account No. 23-3050 in the amount of \$130.00. This sheet is attached in duplicate.
- ☒ The Commissioner is hereby authorized to charge any deficiency or credit any overpayment of the fees associated with this communication to Deposit Account No. 23-3050.

Date: October 10, 2006



John A. Harrelson, Jr.
Registration No. 42,637

Woodcock Washburn LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439



DOCKET NO.: ISIS-2112

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Confirmation No.: 7706

Nielsen, et al

Serial No.: 08/817,067

Group Art Unit: 1631

Filing Date: April 7, 1997

Examiner: Ardin H. Marschel

For: Peptide Nucleic Acid Conjugates

Assistant Commissioner for Patents
Washington, D.C. 20231

STATEMENT IN SUPPORT OF PETITION TO
CORRECT INVENTORSHIP

I, Rolf Henrik Berg, state that:

1. An error in inventorship exists in the above-identified patent application.
2. The error arose because I am an inventor of subject matter disclosed in the above-identified application but was inadvertently omitted in the declaration filed April 4, 1997.
3. I understand that, to correct this error, I am being added as an inventor.
4. This error in inventorship occurred without deceptive intention on my part.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this statement is directed.

Date: 01 Sep 2006



Rolf Henrik Berg

DOCKET NO.: ISIS-2112



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an
original, first and joint inventor (if plural names are listed below) of the subject matter which
is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified
application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information
known to be material to the patentability of this application in accordance with 37 CFR §
1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign
application(s) for patent or inventor's certificate listed below and have also identified below
any foreign application for patent or inventor's certificate having a filing date before that of
any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	EP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

PATENT/TRADEMARK OFFICE

Aug-29-08 10:05am From-WoodcockWahburn
DOCKET NO.: ISIS-2112


+2165693439

T-716 P.012/028 F-341
PATENT

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Peter E. Nielsen	
Mailing Address: Tesdorpfvej 49 Frederiksberg DK 2000	Signature Date of Signature: <u>Sept. 5-2006</u>
City/State of Actual Residence: Frederiksberg Denmark	Citizenship: Denmark

Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u>
Mailing Address: Klosterrisvej 8 3100 Hornback	Signature Date of Signature: _____
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Aug-23-06 10:05am From:WoodcockWashburn
DOCKET NO.: ISIS-2112

+2155683439

T-718 P.013/028 F-341
PATENT

Name: Soren H. Sonnechsen	
Mailing Address: Loevlosten 16 DK 2630 Taastrup, Denmark	Signature _____ Date of Signature: _____
City/State of Actual Residence: Taastrup, Denmark	Citizenship: Denmark

Name: Jesper Lohse	
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Signature _____ Date of Signature: _____
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark

Name: Michael Egholm	
Mailing Address: 11 Highview Road Madison, CT 06443	Signature _____ Date of Signature: _____
City/State of Actual Residence: Madison, Connecticut	Citizenship: Denmark

Aug-23-06 10:05am From-WoodcockWashburn
DUCKETT NO.: 1313-2114

+2155683489

T-716 P.014/028 F-341
PATENT

Name: Muthiah Manoharan	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: John Kiely	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 4230 Corte Facil San Diego, CA 92130	
City/State of Actual Residence: San Diego, California	

Name: Michael Griffith	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 5676 Greenshade Road San Diego, CA 92121	
City/State of Actual Residence: San Diego, California	

Aug-23-08 10:05am From-WoodcockWashburn
DUCKETT NO.: ISIS-2112

+2158883439

T-716 P.015/028 F-341
PATENT

Name: Kelly Sprankle	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	
City/State of Actual Residence: Vista, California	

Name: Rolf Henrik Berg	Signature _____ Date of Signature: _____ Citizenship: Denmark
Mailing Address: Strandvaenge 6 2960 Rungsted Kyst, Denmark	
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an
original, first and joint inventor (if plural names are listed below) of the subject matter which
is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified
application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information
known to be material to the patentability of this application in accordance with 37 CFR §
1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign
application(s)** for patent or inventor's certificate listed below and have also identified below
any foreign application for patent or inventor's certificate having a filing date before that of
any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	EP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

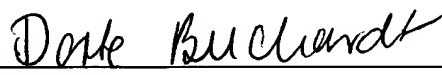
PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Peter E. Nielsen	Signature Date of Signature: _____ Citizenship: Denmark
Mailing Address: Tesdorfsvej 49 Frederiksberg DK 2000	
City/State of Actual Residence: Frederiksberg Denmark	

Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u>
Mailing Address: Klosterrisvej 8 3100 Hornback	Signature  Date of Signature: <u>31-8-2006</u>
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name: Soren H. Sonnechsen	
Mailing Address: Loevtoften 16 DK 2630 Taastrup, Denmark	Signature _____ Date of Signature: _____
City/State of Actual Residence: Taastrup, Denmark	Citizenship: Denmark

Name: Jesper Lohse	
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Signature _____ Date of Signature: _____
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark

Name: Michael Egholm	
Mailing Address: 11 Highview Road Madison, CT 06443	Signature _____ Date of Signature: _____
City/State of Actual Residence: Madison, Connecticut	Citizenship: Denmark

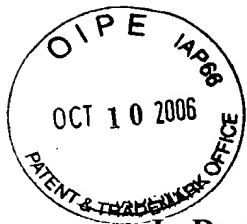
Name: Muthiah Manoharan	 <hr/> Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: John Kiely	 <hr/> Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 4230 Corte Facil San Diego, CA 92130	
City/State of Actual Residence: San Diego, California	

Name: Michael Griffith	 <hr/> Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 5676 Greenshade Road San Diego, CA 92121	
City/State of Actual Residence: San Diego, California	

Name: Kelly Sprankle	
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	Signature _____ Date of Signature: _____
City/State of Actual Residence: Vista, California	Citizenship: United States of America

Name: Rolf Henrik Berg	
Mailing Address: Strandvaenget 6 2960 Rungsted Kyst, Denmark	Signature _____ Date of Signature: _____
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an
original, first and joint inventor (if plural names are listed below) of the subject matter which
is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified
application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information
known to be material to the patentability of this application in accordance with 37 CFR §
1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign
application(s)** for patent or inventor's certificate listed below and have also identified below
any foreign application for patent or inventor's certificate having a filing date before that of
any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	EP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

PATENT TRADEMARK OFFICE


Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Peter E. Nielsen	
Mailing Address: Tesdorfsvej 49 Frederiksberg DK 2000	Signature Date of Signature: _____
City/State of Actual Residence: Frederiksberg Denmark	Citizenship: Denmark

Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u>
Mailing Address: Klosterrisvej 8 3100 Hornback	Signature Date of Signature: _____
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name: Soren H. Sonnechsen	
Mailing Address: Loevtoften 16 DK 2630 Taastrup, Denmark	Signature Date of Signature: <u>3/2 - 06</u>
City/State of Actual Residence: Taastrup, Denmark	Citizenship: Denmark

Name: Jesper Lohse	
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Signature Date of Signature: _____
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark

Name: Michael Egholm	
Mailing Address: 11 Highview Road Madison, CT 06443	Signature Date of Signature: _____
City/State of Actual Residence: Madison, Connecticut	Citizenship: Denmark

Name: Muthiah Manoharan	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: John Kiely	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 4230 Corte Facil San Diego, CA 92130	
City/State of Actual Residence: San Diego, California	

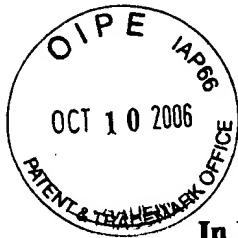
Name: Michael Griffith	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 5676 Greenshade Road San Diego, CA 92121	
City/State of Actual Residence: San Diego, California	

Name: Kelly Sprinkle	_____ Signature
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	Date of Signature: _____
City/State of Actual Residence: Vista, California	Citizenship: United States of America

Name: Rolf Henrik Berg	
Mailing Address: Strandvaenget 6 2960 Rungsted Kyst, Denmark	Signature _____ Date of Signature: _____
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	Citizenship: Denmark

DOCKET NO.: ISIS-2112

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an
original, first and joint inventor (if plural names are listed below) of the subject matter which
is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified
application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information
known to be material to the patentability of this application in accordance with 37 CFR §
1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign
application(s) for patent or inventor's certificate listed below and have also identified below
any foreign application for patent or inventor's certificate having a filing date before that of
any application on which priority is claimed:

DOCKET NO.: ISIS-2112

PATENT

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	BP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

PATENT TRADEMARK OFFICE

DOCKET NO.: ISIS-2112

PATENT

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

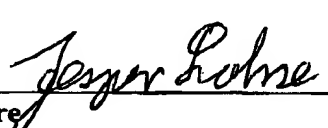
Name: Peter B. Nielsen	
Mailing Address: Tesdorfsvej 49 Frederiksberg DK 2000	Signature Date of Signature: _____
City/State of Actual Residence: Frederiksberg Denmark	Citizenship: Denmark

Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u>
Mailing Address: Klosterrisvej 8 3100 Hornback	Signature Date of Signature: _____
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

DOCKET NO.: ISIS-2112

PATENT

Name: Soren H. Sonnechsen	
Mailing Address: Loevtoften 16 DK 2630 Taastrup, Denmark	Signature Date of Signature: _____
City/State of Actual Residence: Taastrup, Denmark	Citizenship: Denmark

Name: Jesper Lohse	
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Signature  Date of Signature: <u>0920-2006</u>
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark

Name: Michael Egholm	
Mailing Address: 11 Highview Road Madison, CT 06443	Signature Date of Signature: _____
City/State of Actual Residence: Madison, Connecticut	Citizenship: Denmark

DOCKET NO.: ISIS-2112

PATENT

Name: Muthiah Manoharan	
Mailing Address: 25 Circle Drive Weston, MA 02493	Signature _____ Date of Signature: _____
City/State of Actual Residence: Weston, Massachusetts	Citizenship: United States of America

Name: John Kiely	
Mailing Address: 4230 Corte Facil San Diego, CA 92130	Signature _____ Date of Signature: _____
City/State of Actual Residence: San Diego, California	Citizenship: United States of America

Name: Michael Griffith	
Mailing Address: 5676 Greenshade Road San Diego, CA 92121	Signature _____ Date of Signature: _____
City/State of Actual Residence: San Diego, California	Citizenship: United States of America

DOCKET NO.: ISIS-2112

PATENT

Name: Kelly Sprankle	
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	Signature _____
City/State of Actual Residence: Vista, California	Date of Signature: _____ Citizenship: United States of America

Name: Rolf Henrik Berg	
Mailing Address: Strandvaengel 6 2960 Rungsted Kyst, Denmark	Signature _____
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	Date of Signature: _____ Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an
original, first and joint inventor (if plural names are listed below) of the subject matter which
is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified
application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information
known to be material to the patentability of this application in accordance with 37 CFR §
1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign
application(s)** for patent or inventor's certificate listed below and have also identified below
any foreign application for patent or inventor's certificate having a filing date before that of
any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	EP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

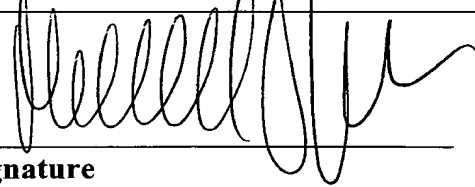
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Peter E. Nielsen	
Mailing Address: Tesdorfsvej 49 Frederiksberg DK 2000	Signature Date of Signature: _____
City/State of Actual Residence: Frederiksberg Denmark	Citizenship: Denmark

Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u>
Mailing Address: Klosterrisvej 8 3100 Hornback	Signature Date of Signature: _____
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name: Soren H. Sonnechsen	
Mailing Address: Loevtoften 16 DK 2630 Taastrup, Denmark	Signature Date of Signature: _____
City/State of Actual Residence: Taastrup, Denmark	Citizenship: Denmark

Name: Jesper Lohse	
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Signature Date of Signature: _____
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark

Name: Michael Egholm	
Mailing Address: 11 Highview Road Madison, CT 06443	Signature Date of Signature: <u>24/2006</u>
City/State of Actual Residence: Madison, Connecticut	Citizenship: Denmark

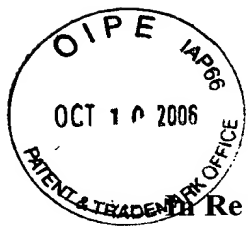
Name: Muthiah Manoharan	 Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: John Kiely	 Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 4230 Corte Facil San Diego, CA 92130	
City/State of Actual Residence: San Diego, California	

Name: Michael Griffith	 Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 5676 Greenshade Road San Diego, CA 92121	
City/State of Actual Residence: San Diego, California	

Name: Kelly Sprankle	
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	Signature _____
City/State of Actual Residence: Vista, California	Date of Signature: _____
	Citizenship: United States of America

Name: Rolf Henrik Berg	
Mailing Address: Strandvaenget 6 2960 Rungsted Kyst, Denmark	Signature _____
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	Date of Signature: _____
	Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an
original, first and joint inventor (if plural names are listed below) of the subject matter which
is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified
application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information
known to be material to the patentability of this application in accordance with 37 CFR §
1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign
application(s)** for patent or inventor's certificate listed below and have also identified below
any foreign application for patent or inventor's certificate having a filing date before that of
any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	EP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

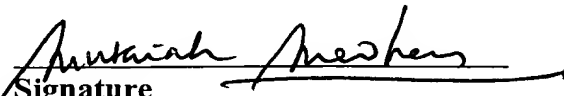
Name: Peter E. Nielsen	
Mailing Address: Tesdorfsvej 49 Frederiksberg DK 2000	Signature Date of Signature: _____
City/State of Actual Residence: Frederiksberg Denmark	Citizenship: Denmark

Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u>
Mailing Address: Klosterrisvej 8 3100 Hornback	Signature Date of Signature: _____
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name: Soren H. Sonnechsen	 Signature _____ Date of Signature: _____ Citizenship: Denmark
Mailing Address: Loevtoften 16 DK 2630 Taastrup, Denmark	
City/State of Actual Residence: Taastrup, Denmark	

Name: Jesper Lohse	 Signature _____ Date of Signature: _____ Citizenship: Denmark
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	
City/State of Actual Residence: Copenhagen, Denmark	

Name: Michael Egholm	 Signature _____ Date of Signature: _____ Citizenship: Denmark
Mailing Address: 11 Highview Road Madison, CT 06443	
City/State of Actual Residence: Madison, Connecticut	

Name: Muthiah Manoharan	 Signature Date of Signature: <u>August 25, 2006</u> Citizenship: United States of America
Mailing Address: 25 Circle Drive 19 ROLLING LAKE ^(S) Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: John Kiely	 Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 4230 Corte Facil San Diego, CA 92130	
City/State of Actual Residence: San Diego, California	

Name: Michael Griffith	 Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 5676 Greenshade Road San Diego, CA 92121	
City/State of Actual Residence: San Diego, California	

Name: Kelly Sprankle	
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	Signature _____
City/State of Actual Residence: Vista, California	Date of Signature: _____
	Citizenship: United States of America

Name: Rolf Henrik Berg	
Mailing Address: Strandvaenget 6 2960 Rungsted Kyst, Denmark	Signature _____
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	Date of Signature: _____
	Citizenship: Denmark

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an
original, first and joint inventor (if plural names are listed below) of the subject matter which
is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified
application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information
known to be material to the patentability of this application in accordance with 37 CFR §
1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign
application(s)** for patent or inventor's certificate listed below and have also identified below
any foreign application for patent or inventor's certificate having a filing date before that of
any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	EP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Peter E. Nielsen	
Mailing Address: Tesdaorpsvej 49 Frederiksberg DK 2000	Signature Date of Signature: _____
City/State of Actual Residence: Frederiksberg Denmark	Citizenship: Denmark

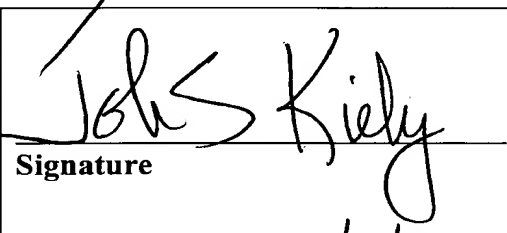
Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u>
Mailing Address: Klosterrisvej 8 3100 Hornback	Signature Date of Signature: _____
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name: Soren H. Sonnechsen	
Mailing Address: Loevtoften 16 DK 2630 Taastrup, Denmark	Signature _____
City/State of Actual Residence: Taastrup, Denmark	Date of Signature: _____ Citizenship: Denmark

Name: Jesper Lohse	
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Signature _____
City/State of Actual Residence: Copenhagen, Denmark	Date of Signature: _____ Citizenship: Denmark

Name: Michael Egholm	
Mailing Address: 11 Highview Road Madison, CT 06443	Signature _____
City/State of Actual Residence: Madison, Connecticut	Date of Signature: _____ Citizenship: Denmark

Name: Muthiah Manoharan	
Mailing Address: 25 Circle Drive Weston, MA 02493	Signature Date of Signature: _____
City/State of Actual Residence: Weston, Massachusetts	Citizenship: United States of America

Name: John Kiely	 Signature
Mailing Address: 16790 Chirco Drive Los Gatos, CA 95032	Date of Signature: <u>09/09/03</u>
City/State of Actual Residence: Los Gatos, California	Citizenship: United States of America

Name: Michael Griffith	
Mailing Address: 5676 Greenshade Road San Diego, CA 92121	Signature Date of Signature: _____
City/State of Actual Residence: San Diego, California	Citizenship: United States of America

Name: Kelly Sprankle	
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	Signature _____
City/State of Actual Residence: Vista, California	Date of Signature: _____
	Citizenship: United States of America

Name: Rolf Henrik Berg	
Mailing Address: Strandvaenget 6 2960 Rungsted Kyst, Denmark	Signature _____
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	Date of Signature: _____
	Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an
original, first and joint inventor (if plural names are listed below) of the subject matter which
is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified
application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information
known to be material to the patentability of this application in accordance with 37 CFR §
1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign
application(s)** for patent or inventor's certificate listed below and have also identified below
any foreign application for patent or inventor's certificate having a filing date before that of
any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	EP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Peter E. Nielsen	
Mailing Address: Tesdorfsvej 49 Frederiksberg DK 2000	Signature _____ Date of Signature: _____
City/State of Actual Residence: Frederiksberg Denmark	Citizenship: Denmark

Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u>
Mailing Address: Klosterrisvej 8 3100 Hornback	Signature _____ Date of Signature: _____
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

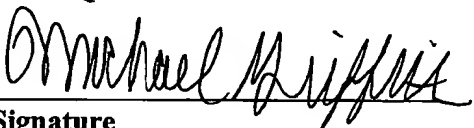
Name: Soren H. Sonnechsen	
Mailing Address: Loevtoften 16 DK 2630 Taastrup, Denmark	Signature _____ Date of Signature: _____
City/State of Actual Residence: Taastrup, Denmark	Citizenship: Denmark

Name: Jesper Lohse	
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Signature _____ Date of Signature: _____
City/State of Actual Residence: Copenhagen, Denmark	Citizenship: Denmark

Name: Michael Egholm	
Mailing Address: 11 Highview Road Madison, CT 06443	Signature _____ Date of Signature: _____
City/State of Actual Residence: Madison, Connecticut	Citizenship: Denmark

Name: Muthiah Manoharan	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: John Kiely	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 16790 Chirco Drive Los Gatos, CA 95032	
City/State of Actual Residence: Los Gatos, California	

Name: Michael Griffith	Signature  Date of Signature: <u>10/3/06</u> Citizenship: United States of America
Mailing Address: 4997 Willow Ridge Court Zionsville, IN 46077	
City/State of Actual Residence: Zionsville, IN	

Name: Kelly Sprankle	
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	Signature _____
City/State of Actual Residence: Vista, California	Date of Signature: _____
	Citizenship: United States of America

Name: Rolf Henrik Berg	
Mailing Address: Strandvaenget 6 2960 Rungsted Kyst, Denmark	Signature _____
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	Date of Signature: _____
	Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an
original, first and joint inventor (if plural names are listed below) of the subject matter which
is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified
application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information
known to be material to the patentability of this application in accordance with 37 CFR §
1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign
application(s)** for patent or inventor's certificate listed below and have also identified below
any foreign application for patent or inventor's certificate having a filing date before that of
any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	EP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Peter E. Nielsen	
Mailing Address: Tesdorfsvej 49 Frederiksberg DK 2000	Signature Date of Signature: _____
City/State of Actual Residence: Frederiksberg Denmark	Citizenship: Denmark

Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u> Signature Date of Signature: _____
Mailing Address: Klosterrisvej 8 3100 Hornback	
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name: Soren H. Sonnechsen	Signature Date of Signature: _____ Citizenship: Denmark
Mailing Address: Loevtoften 16 DK 2630 Taastrup, Denmark	
City/State of Actual Residence: Taastrup, Denmark	

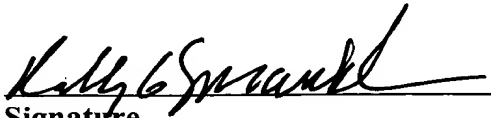
Name: Jesper Lohse	Signature Date of Signature: _____ Citizenship: Denmark
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	
City/State of Actual Residence: Copenhagen, Denmark	

Name: Michael Egholm	Signature Date of Signature: _____ Citizenship: Denmark
Mailing Address: 11 Highview Road Madison, CT 06443	
City/State of Actual Residence: Madison, Connecticut	

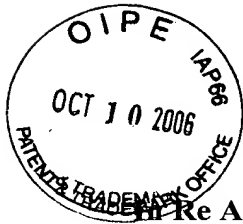
Name: Muthiah Manoharan	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: John Kiely	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 4230 Corte Facil San Diego, CA 92130	
City/State of Actual Residence: San Diego, California	

Name: Michael Griffith	Signature _____ Date of Signature: _____ Citizenship: United States of America
Mailing Address: 5676 Greenshade Road San Diego, CA 92121	
City/State of Actual Residence: San Diego, California	

Name: Kelly Sprankle	 Signature
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	Date of Signature: <u>B-29-06</u>
City/State of Actual Residence: Vista, California	Citizenship: United States of America

Name: Rolf Henrik Berg	
Mailing Address: Strandvaenget 6 2960 Rungsted Kyst, Denmark	Signature Date of Signature: _____
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	Citizenship: Denmark



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Customer No.: 32,650

Peter Eigil Nielsen; Ole Buchardt; Soren H. Sonnechsen;
Jesper Lohse; Michael Egholm; Muthiah Manoharan; John
Kiely; Michael Griffith; Kelly Sprankle; Rolf Henrik Berg

For: Peptide Nucleic Acid Conjugates

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

☒ Utility Patent☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

☐ is attached hereto.☒ was filed on April 4, 1997 as Serial No. 08/817,067.☒ said application having been amended on 08/03/98; 05/24/99; 03/23/00.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	PCT	EP/01219	May 22, 1992
<input checked="" type="checkbox"/>	Denmark	986/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	987/91	May 24, 1991
<input checked="" type="checkbox"/>	Denmark	510/92	April 15, 1992

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned
08/108,591	November 22, 1993	6,395,474
08/088,658	July 2, 1993	5,641,625
08/088,661	July 2, 1993	6,228,982
08/275,951	July 15, 1994	6,451,968

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed

I hereby appoint all the practitioners associated with Customer Number 32,650 to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 32,650 is an attorney registered before the United States Patent and Trademark Office.

32650

PATENT TRADEMARK OFFICE

Address all correspondence to:

Customer Number 32650

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Peter E. Nielsen	
Mailing Address: Tesdorfsvej 49 Frederiksberg DK 2000	Signature Date of Signature: _____
City/State of Actual Residence: Frederiksberg Denmark	Citizenship: Denmark

Name: Ole Buchardt (deceased)	<u>Dorte Buchardt (on behalf of Ole Buchardt)</u>
Mailing Address: Klosterrisvej 8 3100 Hornback	Signature Date of Signature: _____
City/State of Actual Residence: Hornback, Denmark	Citizenship: Denmark

Name: Soren H. Sonnechsen	
Mailing Address: Loevtoften 16 DK 2630 Taastrup, Denmark	Signature _____
City/State of Actual Residence: Taastrup, Denmark	Date of Signature: _____ Citizenship: Denmark

Name: Jesper Lohse	
Mailing Address: Hulgardsvej 92 st. th. DK2400 Copenhagen Denmark	Signature _____
City/State of Actual Residence: Copenhagen, Denmark	Date of Signature: _____ Citizenship: Denmark

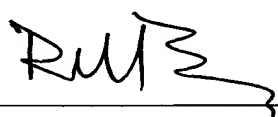
Name: Michael Egholm	
Mailing Address: 11 Highview Road Madison, CT 06443	Signature _____
City/State of Actual Residence: Madison, Connecticut	Date of Signature: _____ Citizenship: Denmark

Name: Muthiah Manoharan	Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 25 Circle Drive Weston, MA 02493	
City/State of Actual Residence: Weston, Massachusetts	

Name: John Kiely	Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 4230 Corte Facil San Diego, CA 92130	
City/State of Actual Residence: San Diego, California	

Name: Michael Griffith	Signature Date of Signature: _____ Citizenship: United States of America
Mailing Address: 5676 Greenshade Road San Diego, CA 92121	
City/State of Actual Residence: San Diego, California	

Name: Kelly Sprankle	
Mailing Address: 1024 Gleneagles Place Vista, CA 92081	Signature _____
City/State of Actual Residence: Vista, California	Date of Signature: _____ Citizenship: United States of America

Name: Rolf Henrik Berg	 _____
Mailing Address: Strandvaenget 6 2960 Rungsted Kyst, Denmark	Signature Date of Signature: <u>01 Sep 2006</u>
City/State of Actual Residence: 2960 Rungsted Kyst, Denmark	Citizenship: Denmark